JON R O'HARE 17479 7TH AVE SW NORMANDY PARK, WA 98166

Re: Project #6698208-DM-004

Correction Notice #1

Review Type GEO SOILS Project Address 801 3RD AVE

SEATTLE, WA 98104

Contact Email JON@PERMITCNW.COM

SDCI Reviewer Pao Huang **Reviewer Phone** (206) 684-5825

Reviewer Email pao.huang@seattle.gov

Owner D LLC

Date April 08, 2021 **Contact Phone** (425) 301-9541

Address Seattle Department of Construction and

700 Fifth Ave Suite 2000 PO Box 34019

Inspections

Seattle, WA 98124-4019

Description of Work:

Revision: Install temporary rubble bracing, per plan.

Reference:

March 12, 2021 "Geotechnical Recommendations for Rubble Berm Support of Basement Wall ", by Hart Crowser (File No. 19567-01)

Document Reviewed:

Plan Set uploaded on 3/25/2021 (1.26 MB)

Applicant Instructions

You will not be able to upload corrected plans until all reviews are completed and the project's review status is "Corrections Required".

*** Respond by providing a written response to each correction AND identify changes to drawings since initial review. ***

Drawings shall be **legible**, with sheets **oriented correctly**, on an appropriate **sheet size**, with all revisions/changes **clouded or circled**, with **no missing sheets**, and uploaded in a **single PDF file**.

Link for detailed steps: "How to Respond to a Correction Notice". If the 3-step process outlined in this document is not followed, your response could be **rejected**, permit issuance could be **delayed**, and **penalty fees** could be assessed.

Codes Reviewed

This project has been reviewed for conformance with one or more of the following codes: 2015 Seattle Building Code (SBC); 2015 Seattle Residential Code (SRC); 2015 Seattle Existing Building Code (SEBC); 2015 Seattle Energy Code (SEC); Grading Code; Environmentally Critical Areas Regulations (ECA).

Project #6698208-DM-004, Correction Notice #1

This project has been reviewed for conformance with one or more of the following codes: 2018 Seattle Building Code (SBC); 2018 Seattle Residential Code (SRC); 2018 Seattle Existing Building Code (SEBC); 2018 Seattle Energy Code (SEC); Grading Code; Environmentally Critical Areas Regulations (ECA).

Corrections

1. The bench width is 6 feet. Please have geotechnical engineer confirm Kp=4.1 used by the structure engineer is appropriate. Please also elaborate on how the Kp is developed for the slopped ground with a bench as recommended in the Table 1 in the Memo.

Reference Hart Crowser response on page 6. [GK, LCL, 04/30]

2. Please have geotechnical engineer recommend monitoring program for the basement wall deflection during demolishing and the monitoring program should be included in the plans.

Reference Hart Crowser response on page 7. [GK, LCL, 04/30]

3. SMC 22.170.190 A. Provide a signed and stamped letter from the geotechnical engineer that includes review of the plans and provides a minimal risk statement in accordance with Director's Rule 5-2016. The plan review/minimal risk letter must be based upon review of plans with all substantial geotechnical recommendations incorporated.

Signed and stamped letter from Hart Crowser on pages 9-10. [GK, LCL, 04/30]

4. SMC 25.09.080 D and 22.170.080 A.1. Liability insurance, including Products Completed Operations Coverage, is required by the ECA and Grading Codes. Contact Amber Udelhoven of City Risk Management at amber.udelhoven@seattle.gov to facilitate submittal of insurance forms from the contractor's insurance agent. Be prepared to provide the names of the excavation and shoring contractors

Amber Udelhoven has been contacted to facilitate submittal of insurance forms, Rhine demolition is currently submitting liability insurance forms for review and approval. [GK, LCL, 04/30]

5. SMC 22.170.130. Nominate a geotechnical engineering firm on the enclosed SDCI Geotechnical Special Inspections Schedule form. This form must be signed by the owner or owner's representative; the form cannot be signed by the contractor nor the geotechnical engineer.

The Inspection Agency must be the same engineer/firm that prepared the geotechnical report. If the owner nominates a different engineer/firm to act as the Geotechnical Special Inspector, the new engineer must review the original geotechnical report and submit a letter indicating a review was performed, along with a statement of agreement with the evaluation and provisions contained in the report. If the new engineer does not agree with aspects of the report, rebuttal evaluations and recommendations must be included in the review letter. The plans must be revised accordingly and submitted to SDCI for review. Please do not fill in special inspection items on the enclosed form.

Requests for changes of Special Inspection Agency that occur during plan review should be submitted with corrected plans. If the request occurs after permit issuance, send the materials to jerry.abson@seattle.gov.

Owner signed SDCI Geotechnical Special Inspections Schedule form on page 11. [GK, LCL, 04/30]

JON R O'HARE 17479 7TH AVE SW NORMANDY PARK, WA 98166

Re: Project #6698208-DM-004

Correction Notice #1

Review Type STRUCTURAL ENGINEER

Project Address 801 3RD AVE

SEATTLE, WA 98104

Contact Email JON@PERMITCNW.COM

SDCI Reviewer Ben Enfield **Reviewer Phone** (206) 615-0774

Reviewer Email Benjamin.Enfield@Seattle.gov

Owner D LLC

Date April 12, 2021 **Contact Phone** (425) 301-9541

Address Seattle Department of Construction and

Inspections 700 Fifth Ave Suite 2000 PO Box 34019

Seattle, WA 98124-4019

Applicant Instructions

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*** Respond by providing a written response to each correction AND identify changes to drawings since initial review. ***

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Codes Reviewed

This project has been reviewed for conformance with one or more of the following codes: 2015 Seattle Building Code (SBC); 2015 Seattle Residential Code (SRC); 2015 Seattle Existing Building Code (SEBC); 2015 Seattle Energy Code (SEC); Grading Code; Environmentally Critical Areas Regulations (ECA).

This project has been reviewed for conformance with one or more of the following codes: 2018 Seattle Building Code (SBC); 2018 Seattle Residential Code (SRC); 2018 Seattle Existing Building Code (SEBC); 2018 Seattle Energy Code (SEC); Grading Code; Environmentally Critical Areas Regulations (ECA).

Corrections

1. Opening support

Calcs page 4 -

- a. The temporary case assumes support against the Marion St wall. Clarify the load path for this force.
- b. And on the other side of the opening, a support is assumed. Clarify what this support is.

Responses on page 12-14. [GK, LCL, 04/30]

Project #6698208-DM-004, Correction Notice #1

e. Geotech comments Please coordinate the calculations and response with the response to the geotechnical comments.				
Project #6698208-DM-004, Correction Notice #				
Seattle Department of Construction and Inspections				

Gu, Ray

From: Gu, Ray

Sent: Friday, April 23, 2021 10:33 AM

To: Jon O'Hare Cc: Bou, William

Subject: 6698208-DM-004 801 3rd Ave

Hi Jon,

The first round SDOT shoring review is conducted and comments provided below:

- The Geotechnical Engineer shall review the shoring design and indicate whether the relevant recommendations
 in the Geotechnical Report are implemented and the design is acceptable. Provide a signed and stamped letter
 from the geotechnical engineer for updated design recommendations and construction considerations, as
 appropriate
 - Signed and stamped letter from Hart Crowser on pages 9-10. [GK, LCL, 04/30]
- 2. Indicate the depth of court yar deck with reference to 3rd Ave sidewalk and double check the soil later pressure profile in Calcs.
 - Reference KPFF responses on pages 15-16. [GK, LCL, 04/30]
- 3. On page 2 of plan set, modify the note for yellow deck to: Floor slabs at court and on-grade levels and their columns can be demolished only after rubble is in place at both and north and east walls.
 - Reference KPFF response on page 15 and revised plan sheet on page 17. [GK, LCL, 04/30]
- 4. Provide an optical monitoring program for potential ground movement during construction. It should include at least include three optical survey points at 3rd Ave and one at Marion St Reference Hart Crowser response on pages 7-8. [GK, LCL, 04/30]
- 5. It is advised to pour CDF to fill the potential gaps or voids between rubble and subsurface walls. Reference Hart Crowser response on page 8. [GK, LCL, 04/30]

Regards,



Ray Gu, PE, SE
Senior Civil Engineer
Street Use Division
City of Seattle Department of Transportation

O: 206.684.5281 | F: 206.684.3130 | ray.gu@seattle.gov

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A division of Haley & Aldrich

April 28, 2021

Mark Presleigh Lease Crutcher Lewis 2200 Western Avenue, Suite 500 Seattle, WA 98121

Re: Addendum #1 - Response to SDCI Correction Notice #1

The Net - Rubble Berm Support of Basement Walls

SDCI Project Number: 6698208-DM-004

19567-01

Mark,

This addendum letter provides recommendations for a monitoring program and provides responses to comments from Seattle Department of Construction and Inspections (SDCI) and Seattle Department of Transportation (SDOT):

- 1. SDCI Structural Engineer Correction Notice #1, Correction Items #1 and #2.
- 2. SDOT, Comments #1, #4, and #5.

SDCI Correction Item #1

The bench width is 6 feet. Please have geotechnical engineer confirm Kp=4.1 used by the structural engineer is appropriate. Elaborate on how Kp is developed for the sloped ground with a bench as recommended in Table 1 in the Memo.

The geotechnical engineer is Hart Crowser, a division of Haley & Aldrich (HCHA). We confirm that Kp=4.1 for a 6-foot-wide bench, as used by the structural engineer, is appropriate.

Kp for the bench is developed by multiplying Kp for a level ground condition by the ratio of the area of a full passive wedge and the area of the truncated wedge resulting from the benched geometry. Kp for level ground condition is calculated using the log-spiral method with a soil friction angle of 40 degrees and interface friction angle of 20 degrees. The material used for berm construction is processed angular concrete rubble debris.

Note that, per the structural engineer's calculations, the lateral resistance of the rubble berm is controlled by base sliding of the berm using an interface coefficient of friction of 0.3, not passive earth pressure.



SDCI Correction Item #2

Please have the geotechnical engineer recommend monitoring program for the basement wall deflection during demolition and the monitoring program should be included in the plans.

HCHA recommends the following monitoring program:

Optical Survey Locations

- 1. Interior walls locate points near the top of the wall, spaced about every 15 feet.
- 2. Curb line locate points on curb line across from basement area, spaced every 20 feet along the curb.

Optical Survey Monitoring Frequency

- 1. Interior Walls
 - a. Baseline prior to removing adjacent wall diaphragm/existing support.
 - b. Once per week during demolition.
 - c. Once demolition is complete and bracing/shoring/rubble mounds are in place, and provided that survey data indicates little or no additional movement, reduce survey frequency to every other week.
- 2. Curb line
 - a. Baseline prior to removing adjacent wall diaphragm/existing support.
 - b. Start regular monitoring if interior wall data indicates movement of 0.5 inch or if there is a sudden change in wall movement.
- 3. Duration
 - a. Optical survey should continue for a minimum of one month after demolition is complete and bracing/shoring/rubble mounds are in place.
 - b. After one month, and provided that survey data indicates little or no additional movement, the geotechnical engineer, in cooperation with the shoring engineer, may recommend stopping the optical survey monitoring.

Reporting

1. Survey data to be provided to HCHA on a weekly basis for review.

SDOT Comment #1

The Geotechnical Engineer shall review the shoring design and indicate whether the relevant recommendations in the Geotechnical Report are implemented and the design is acceptable. Provide a signed and stamped letter from the geotechnical engineer for updated design recommendations and construction considerations, as appropriate.

HCHA (geotechnical engineer) has provided a plan review and minimum risk statement letter to SDCI.

The Net - Rubble Berm Support of Basement Walls April 28, 2021

19567-01 Page 3

SDOT Comment #4

Provide an optical monitoring program for potential ground movement during construction. It should include at least include three optical survey points at 3rd Ave and one at Marion St.

See response to SDCI Correction Item #2. The recommended monitoring exceeds the minimum recommended by SDOT Comment #4.

SDOT Comment #5

It is advised to pour CDF to fill the potential gaps or voids between rubble and subsurface walls.

Constructability is unlikely because controlled density fill (CDF) would either flow laterally through the voids, spilling out of the berm or, if voids are small, CDF would not penetrate the berm fill and would just flow over the surface of the berm. The rubble has been observed to be processed and reasonably well-graded so that the load is not resisted by only sparse points.

Closing

This letter is an addendum to our previously submitted memorandum dated March 12, 2021. The recommendations in this addendum are supplementary to the referenced memorandum. If you have questions or if we can be of further assistance, please call.

Sincerely,

HART CROWSER, A DIVISION OF HALEY & ALDRICH

WILLIAM WASHINGTON WAN

MATTHEW W. VEENSTRA, PE Associate, Geotechnical Engineer DAVID G. WINTER, PE General Manager

of 6 Winter

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A division of Haley & Aldrich

April 28, 2021

Mark Presleigh Lease Crutcher Lewis 2200 Western Avenue, Suite 500 Seattle, WA 98121

Re: Plan Review and Minimum Risk Statement

The Net - Rubble Berm Support of Basement Walls - 823 Building

SDCI Project Number: 6698208-DM-004

Seattle, Washington

19567-01

Mark:

This letter provides Hart Crowser's geotechnical-related review of the structural submittal for temporary support of existing basement walls during demolition.

Plan Review

We have reviewed the structural submittal by KPFF dated March 10, 2021 for rubble support of existing basement walls. In our opinion, the design and plans adequately conform to the recommendations provided in our geotechnical engineering design memorandum dated March 12, 2021.

Minimum Risk Statement

Regardless of the precautions taken and the level of engineering applied to the development, it is not possible to state that risks associated with the development do not exist. However, it is our opinion that the risk of damage to the proposed development or to the adjacent properties from soil stability will be minimal, provided that construction is carried out in accordance with the project plans, specifications, and our recommendations. By minimal, we mean that the risk is at a level generally considered acceptable in the local industry.



The Net - Rubble Berm Support of Basement Walls April 28, 2021

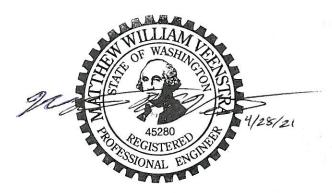
19567-01

Page 2

We trust this letter meets your project needs. If you have questions or if we can be of further assistance, please call.

Sincerely,

HART CROWSER, A DIVISION OF HALEY & ALDRICH



MATTHEW W. VEENSTRA, PE Associate, Geotechnical Engineer

Jung G Winter

DAVID G. WINTER, PE General Manager

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Revised Schedule	Addition to Previous Sche	edule	
SDCI Geotechnica	l Inspections Sch	nedule	
Project Number 6698208-D	M-004	D	ate 4/8/2021 6:15 PM
Project Address 801 3RD A SEATTLE,		SDCI PI Exami	an Pao Huang ner
Architect		Architect Pho	one
Engineer		Engineer Pho	one
hereby certify that the geotechnical engine- elow as required by the Seattle Building Conspection agency in a timely manner when	ode. It is the responsibility of	the owner or the owner's	
ignature	Title	Date	Phone
IART CROWSER INC		206-324-9530	
eotechnical Engineering Firm Name		Geotechnical Eng	ineering Firm Phone
Required Special Inspections			

Inspection Type	Description	
1. Observe And Monitor Excavation		
2. Other Geotechnical	Monitor deflection of basement wall	
Call (206) 694 9960 to caledula a pro construction conference before the start of construction		

Call (206) 684-8860 to schedule a pre-construction conference before the start of construction



4/15/2021

Ben Enfield
City of Seattle
Department of Construction and Inspections

Subject: 801 3rd Ave (3rd and Columbia)

Permit No. 6698208-DM-004

Correction Notice #1

Dear Ben:

We have reviewed the Structural Engineering Correction Notice #1 dated April 12, 2021. Please refer to supplemental calculations dated 4/15/2021 for additional information referenced in our responses. Please see our responses to comments below.

PERMIT COMMENT RESPONSES

1. Comment: The temporary case assumes support against the Marion St. wall. Clarify the load path for this force.

Response: The diaphragm at either end is supported by the concrete walls that carry the loads down to the soil, or to the slab-on-grade which all work to resist the loads from the diaphragm. Additional calculations are provided in response to this comment that demonstrate that this load path has adequate capacity to resist the forces from the soil.

2. Comment: And on the other side of the opening, a support is assumed. Clarify what this support is.

Response: Please see response to comment above.

If there are any further comments or questions, please feel free to call me at (206) 622-5822.

Sincerely,

Scott Neuman, SE

Associate

SLN

kpff Consulting Engineers	project 823 3RD AVE DEMOLITION	by SLN	sheet no.
	location	date 4-13-21	
1601 5th Avenue, Suite 1600 Seattle, WA 98101 (206) 622-5822 Fax (206) 622-8130	client		job no.
(200) 022-0130			
Response to SDCI commo	nts dated 4-12-2021		
	o clorify what provides suppor		
reactions for temporare	condition shown on ca	Irulation po	50
7 of 17 of original			

EXTERIOR GRADE ELEVATION VARIES

EX COME

Reaction per previous colectations is Vu=158K

Resistance modes for diaphreym

Friction due to self wt. of woll

wall is a 8 ft tell in demolished condition on overege along Marion St.

wt. well= 8H. 1H. 108H. O.15kef = 130k

ut. Fooling = 1.5ft.3ft.108ft. O.15kcf = 73 K

total = 203K

SOIL FRICTION ON

WHORMED SURFACE

Function & Bose = (0.9.2034). 0.4 = 73K

Fusction due to loteral soil pressure on side

Per original detail 8/53 SECTION AT MARION ST.

of well

Total load on side of well =

(280 psf. 8ft. Vz). 108 ft = 121 K

Friction on side of wall SOIL FRICTION ON FORMED SURFACE 280 PSF

firetion de to weight of slob-on-grade

1/2 of slob-on-guede helps to vesist look from one side of bldg

wt. sog. = (108ft. 117ft), 4.4 .0.15kef = 316 K

friction at bottom of s.o.g. = (0,9.316k).0.4 = 114K

Total = 73k + 33k + 114k = 220k 6F

There are additional mechanisms for resisting forces from disphagem including slab-on-grade bearing on existing conc columns & footings, and song bearing on stem well & possive resistance in The alley, but these mechanisms don't need to be quartified because The mechanisms above are demonstrated to have adapted resistance. Strength of existing structure is adaptate to transfer loads by inspection.



1601 5th Avenue, Suite 1600 Seattle, WA 98101 (206) 622-5822 Fax (206) 622-8130

project 823	3rd AVE	DEMOLITION	by SLN	sheet no.
location			date 4-13-21	
client				job no.

Response to SDCI Question deted 4-12-21
what Provides registence to drophrogun at boundary between 823 3rd Ave
building and 801 3 to one building in temporary condition.

Readion per previors alalotions = Vv = 158 K

Resistance modes for diaphregm reaction

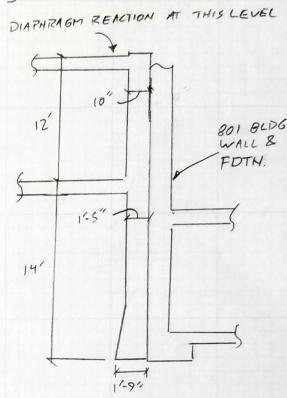
Fridian de to solf weight of woll.

Weight of upper well: 12.10.108 Ft. 0.15 = 162 K weight of lower well: 14.17.108 Ft. 0.15 = 321K

Total = 483K

Friction= (0,9.483k).0.4= 174K (F)

additional unachanisms for vegisting forces
from draphragum exist but do not need to
be quantified because friction on the base
of the existing basemet wall is adaptate
by itself.



Per original details 182/52 section at 823-801 Boundary



4/26/2021

Ray Gu, PE, SE City of Seattle Department of Transportation

Subject: 801 3rd Ave (3rd and Columbia)

Permit No. 6698208-DM-004 SDOT Correction Notice #1

Dear Ray:

We have reviewed the Structural Engineering comments that you sent via e-mail dated April 23, 2021. Please see our responses to comments below.

PERMIT COMMENT RESPONSES

2. Comment: Indicate the depth of court yard deck with reference to 3rd Ave sidewalk and double check the soil lateral pressure profile in calcs.

Response: Review of the as-built drawings for the 823 building and the site plan for "The Net" indicate that the correct height of 12'-6" for the retained soil along 3rd Ave was used for the design of the rubble walls. See attached page of additional calculations verifying this height.

3. Comment: On page 2 of plan set, modify the note for tallow deck to: Floor slabs at court and on-grade levels and their column can be demolished only after rubble is in place at both the north and east walls.

Response: Please see updated plan sheet attached to this response.

If there are any further comments or questions, please feel free to call me at (206) 388-8228.

Sincerely,

Scott Neuman, SE

Associate

SLN



1601 5th Avenue, Suite 1600 Seattle, WA 98101 [206] 622-5822

sheet no. project 3 RD & Columbia by SLN date 4-26-21 job no.

Response to SDOT Comments Z. Indicate depth of court yard deck with reference to 3rd Ave sidewalk and double check the soil lateral pressure profile cales. Topof Emished Floor = EL 90-0" per detail 2/54 Along 3rd Are side of bldg, Top of structure = 89'-5"

Top of finished slab-on-grade = EL 77-0" par plan on SZ

Total hoight of besoment well @ 823 bldg at 3rd Ave = (89-5") - (77-0") = 12-5"

calculations were performed for a hoisst of 12-6" which is acceptable.

Hac: AT NE corner of site, there are stops up into the bldg before Steps down to the Level 1 slab, Drowing Short GOID from drowings from "The Net" (2020) show that The elevation for 3rd Are drops about 3.5 ft from a high at the HE comm of the building to a low at the SE corner. This is consistent with the original 823 building construction drawings which show a lower entry height sloped up to meet the slob at the SE corner. Conclusion is that the maximum retorned soil height is 12-6: which has been accounted for in The design,

